AMENDMENTS TO THE CLAIMS

Docket No.: P0728.70009US00

- 1. (Currently amended) A material handling tool, comprising:
- a tool body;
- a plurality of needles mounted to the tool body, each of the plurality of needles constructed and arranged to remove material from a work area and deposit material on a work area;

a plurality of plungers moveable in the tool body, each of the plurality of plungers associated with a corresponding one of the plurality of needles, wherein each of the plungers has a passageway that allows fluid flow through the plunger; and

a controller constructed and arranged to individually address each of the passageways so that flow in each of the passageways is individually controlled, wherein the controller comprises a plurality of actuators, each of the actuators capable of opening and closing a corresponding passageway, and a plurality of drive switches that controls flow through a passageway opened by an actuator.

- 2. (Canceled)
- 3. (Currently amended) The tool of claim $[2] \underline{1}$, wherein each of the plurality of actuators includes a membrane valve that controls fluid flow with respect to a corresponding passageway.
- 4. (Currently amended) The tool of claim [2] 1, wherein the controller comprises a plurality of control switches that provides signals to the plurality of actuators to open and close a corresponding passageway.
- 5. (Original) The tool of claim 4, wherein each of the plurality of control switches comprises a valve that provides a fluid signal to a corresponding actuator.
 - 6. (Canceled)

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- 7. (Currently amended) The tool of claim [6] 1, wherein each of the plurality of drive switches includes a valve that provides a fluid flow for a corresponding passageway.
- 8. (Previously presented) The tool of claim 1, wherein closing of a passageway of a plunger results in one of drawing fluid into or expelling fluid from a corresponding needle when the plunger is moved in the tool body.
- 9. (Original) The tool of claim 1, wherein one portion of each plunger is secured to a first portion of the tool body and a second portion of each plunger is slidably engaged with a channel in a second portion of the tool body such that movement of the first portion of the tool body relative to the second portion of the tool body causes a pressure change in each channel for plungers that have their passageway closed.
 - 10. (Currently amended) The tool of claim 1, wherein the controller includes:
- a first number of membrane valves, each <u>membrane</u> valve associated with a corresponding plunger and controlling flow for the passageway in the plunger; and
- a valve controller constructed and arranged to control each of the membrane valves by providing signals to the membrane valves;

wherein the valve controller is adapted to control the membrane valves to individually control flow for each passageway.

- 11. (Original) The tool of claim 10, wherein the valve controller includes a plurality of first valves that each provide an air pressure signal to a corresponding group of membrane valves to control the membrane valves between open and closed states to open and close a corresponding passageway.
- 12. (Original) The tool of claim 11, wherein the valve controller includes a plurality of second valves that each provide a fluid flow to corresponding membrane valves.

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- 13. (Original) The tool of claim 10, wherein the plurality of needles and corresponding membrane valves are arranged in an M x N array.
- 14. (Original) The tool of claim 13, wherein the valve controller includes M valves that each provide an air pressure signal to membrane valves in a corresponding row.
- 15. (Original) The tool of claim 13, wherein the valve controller includes N valves that each provide a fluid flow to membrane valves in a corresponding column.
- 16. (Original) The tool of claim 13, wherein closing of a passageway of a plunger results in one of drawing fluid into and expelling fluid from a corresponding needle when the plunger is moved in the tool body.
 - 17. (Original) The tool of claim 13, wherein the valve controller is mounted to the tool body.
- 18. (Original) The tool of claim 10, wherein the valve controller is adapted to control the membrane valves to simultaneously control flow for a plurality of passageways.
 - 19. (Currently amended) The tool of claim 1, wherein:

A material handling tool, comprising:

a tool body;

a plurality of needles mounted to the tool body, each of the plurality of needles constructed and arranged to remove material from a work area and deposit material on a work area and wherein the plurality of needles are mounted to the tool body in M columns and N rows; and

a plurality of plungers moveable in the tool body, each of the plurality of plungers associated with a corresponding one of the plurality of needles, wherein each of the plungers has a passageway that allows fluid flow through the plunger; and

a controller constructed and arranged to individually address each of the passageways so that flow in each of the passageways is individually controlled;

wherein the controller includes:

a plurality of addressing valves, at least one addressing valve associated with a corresponding passageway and controlling flow for the passageway; and

a plurality of switches that provide signals to the addressing valves, the number of switches equal to M + N;

wherein the plurality of switches are adapted to provide signals to the addressing valves to individually control flow for each needle.

- 20. (Original) The tool of claim 19, wherein the plurality of switches are mounted to the tool body.
- 21. (Original) The tool of claim 19, wherein the plurality of switches includes M switches associated with M columns of needles, each of the M switches corresponding to and providing signals to valves for a corresponding column, and the plurality of switches further includes N switches associated with N rows of needles, each of the N switches corresponding to and providing signals to valves for a corresponding row.
- 22. (Original) The tool of claim 21, wherein the plurality of switches include fluid valves that provide at least one of a fluid pressure and a fluid flow to corresponding addressing valves.
- 23. (Original) The tool of claim 19, wherein the plurality of switches are adapted to provide signals to the addressing valves to simultaneously control flow for a plurality of needles.